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PATENT

Attorney Docket No.: A-67501/DJB/TAL

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

GOETZL et al.

Serial No. 09/274,752

Filed: March 23, 1999

For: HUMAN POLYPEPTIDE
RECEPTORS FOR
LYSOPHOSPHOLIPIDS AND
SPHINGOLIPIDS AND NUCLEIC
ACIDS ENCODING THE SAME

Examiner: Harris, A.

Group Art Unit: 1643

CERTIFICATE OF MAILING

I hereby certify that this correspondence, including listed enclosures, is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231 on:

Dated:

Signed:

4.13.01
Christine P. Peters
Christine P. Peters

TRANSMITTAL OF SEQUENCE LISTING

BOX SEQUENCE LISTING

Assistant Commissioner

for Patents

Washington, DC 20231

Sir:

In response to an Office Communication dated March 21, 2000, enclosed are the following:

1. Transmittal;
2. Replacement Computer readable form of Sequence Listing;
3. Replacement Paper Copy of Sequence Listing;
4. Amendment;
5. Copy of PTO Communication.

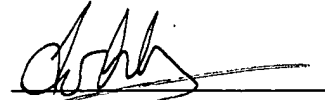


Serial No.: 09/274,752
Filed: March 23, 1999

The Commissioner is authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-1300 (Our Order No. A-67501/DJB/TAL).

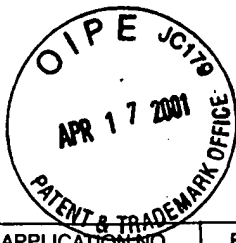
Respectfully submitted,

FLEHR HOHBACH TEST
ALBRITTON & HERBERT LLP



Todd A. Lorenz
Reg. 39,754

Four Embarcadero Center
Suite 3400
San Francisco, CA 94111-4187
Telephone: (415) 781-1989
1041814



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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2001/00221 03/22/99 602131 E A-67501/0067

FILED HIGHBACK TEST ALBRITTON & HERBERT
FOUR SQUARES/ROD CENTER
JULY 14/99
SAN FRANCISCO CA 94111 4197

EXAMINER

HARRIS, J.

ART UNIT PAPER NUMBER

1642

DATE MAILED: 03/21/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

File A-67501 Atty DSB, TAL, DLR
Due Date 4-21-2001
Type Sequence Listing Refs -

Application No.: 09/274,752

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):



- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other: _____

Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

For PatentIn software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

DEA/FCE:1994

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.

EXAMINER	
Alana M. Harris, Ph.D.	
ART UNIT	PAPER NUMBER
1642	11

DATE MAILED:

Please find below a communication from the EXAMINER in charge of this application

Commissioner of Patents

1. The reply filed **February 12, 2001** is not fully responsive to the communication mailed **January 10, 2001** for the reason(s) set forth on the enclosed copy of the CRF Diskette Problem Report. Since the above-mentioned reply appears to be *bona fide*, applicant is given a TIME PERIOD of **ONE (1) MONTH** or **THIRTY (30) DAYS**, from the mailing date of this notice, whichever is longer, within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME LIMIT MAY BE GRANTED UNDER 37 CFR 1.136(a). Direct the response to the undersigned. Applicant is requested to return a copy of the attached Notice to Comply with the response.
2. Any inquiry concerning this communication should be directed to Examiner Alana M. Harris, Art Unit 1642, whose telephone number is (703)306-5880.
3. Any questions regarding compliance with the sequence rules requirements specifically should be directed to the departments listed at the bottom of the Notice to Comply.

Alana M. Harris, Ph.D.
Patent Examiner
Group 1642

Sheela J. Huff
SHEELA HUFF
PRIMARY EXAMINER

A Harris

Revised

RAW SEQUENCE LISTING
ERROR REPORT

BIO TECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/274,752C

Source: 1600

Date Processed by STIC: 2/22/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

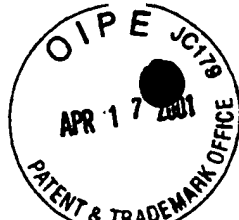
The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>



RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/274,752C

DATE: 03/13/2001
TIME: 17:08:17

Input Set : A:\A-67501.app
Output Set: N:\CRF3\03132001\I274752C.raw

re-run
P.S

*Does Not Comply
Corrected Diskette Needed*

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3 <110> APPLICANT: Goetzl, Edward L.
4   An, Songzhu
6 <120> TITLE OF INVENTION: Human Polypeptide Receptors for Lysophospholipids and
7   Sphingolipids and Nucleic Acids Encoding the Same
9 <130> FILE REFERENCE: A-67501/DJB/TAL
11 <140> CURRENT APPLICATION NUMBER: 09/274,752C
12 <141> CURRENT FILING DATE: 1999-03-23
14 <160> NUMBER OF SEQ ID NOS: 29
16 <170> SOFTWARE: PatentIn Ver. 2.0
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 382
20 <212> TYPE: PRT
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27 Tyr Asn Asn Ser Gly Lys Glu Leu Ser Ser His Trp Arg Pro Lys Asp
28   20           25           30
30 Val Val Val Val Ala Leu Gly Leu Thr Val Ser Val Leu Val Leu Leu
31   35           40           45
33 Thr Asn Leu Leu Val Ile Ala Ala Ile Ala Ser Asn Arg Arg Phe His
34   50           55           60
36 Gln Pro Ile Tyr Tyr Leu Leu Gly Asn Leu Ala Ala Asp Leu Phe
37   65           70           75           80
39 Ala Gly Val Ala Tyr Leu Phe Leu Met Phe His Thr Gly Pro Arg Thr
40   85           90           95
42 Ala Arg Leu Ser Leu Glu Gly Trp Phe Leu Arg Gln Gly Leu Leu Asp
43   100          105          110
45 Thr Ser Leu Thr Ala Ser Val Ala Thr Leu Leu Ala Ile Ala Val Glu
46   115          120          125
48 Arg His Arg Ser Val Met Ala Val Gln Leu His Ser Arg Leu Pro Arg
49   130          135          140
51 Gly Arg Val Val Met Leu Ile Val Gly Val Trp Val Ala Ala Leu Gly
52 145          150          155          160
54 Leu Gly Leu Leu Pro Ala His Ser Trp His Cys Leu Cys Ala Leu Asp
55   165          170          175
57 Arg Cys Ser Arg Met Ala Pro Leu Leu Ser Arg Ser Tyr Leu Ala Val
58   180          185          190
60 Trp Ala Leu Ser Ser Leu Leu Val Phe Leu Leu Met Val Ala Val Tyr
61   195          200          205
63 Thr Arg Ile Phe Phe Tyr Val Arg Arg Arg Val Gln Arg Met Ala Glu
64   210          215          220
66 His Val Ser Cys His Pro Arg Tyr Arg Glu Thr Thr Leu Ser Leu Val
67 225          230          235          240
69 Lys Thr Val Val Ile Ile Leu Gly Ala Phe Val Val Cys Trp Thr Pro
70   245          250          255
72 Gly Gln Val Val Leu Leu Leu Asp Gly Leu Gly Cys Glu Ser Cys Asn

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RAW SEQUENCE LISTING

DATE: 03/13/2001

PATENT APPLICATION: US/09/274,752C

TIME: 17:08:17

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Output Set: N:\CRF3\03132001\I274752C.raw

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75 Val Leu Ala Val Glu Lys Tyr Phe Leu Leu Leu Ala Glu Ala Asn Ser
76          275          280          285
78 Leu Val Asn Ala Ala Val Tyr Ser Cys Arg Asp Ser Glu Met Arg Arg
79          290          295          300
81 Thr Phe Arg Arg Leu Leu Cys Cys Ala Cys Leu Arg Gln Ser Thr Arg
82 305          310          315          320
84 Glu Ser Val His Tyr Thr Ser Ser Ala Gln Gly Gly Ala Ser Thr Arg
85          325          330          335
87 Ile Met Leu Pro Glu Asn Gly His Pro Leu Met Thr Pro Pro Phe Ser
88          340          345          350
90 Tyr Leu Glu Leu Gln Arg Tyr Ala Ala Ser Asn Lys Ser Thr Ala Pro
91          355          360          365
93 Asp Asp Leu Trp Val Leu Leu Ala Gln Pro Asn Gln Gln Asp
94          370          375          380
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98 <211> LENGTH: 1734
99 <212> TYPE: DNA
100 <213> ORGANISM: Homo sapiens
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105 atcggttct tctataacaa cagtggcaaa gagctcagct cccactggcg gcccaaggat 180
106 gtggtcgtgg tggcactggg gctgaccgtc agcgtgctgg tgctgctgac caatctgctg 240
107 gtcatagcag ccatagcctc caaccgcgcg ttccaccagc ccatactacta cctgctcggc 300
108 aatctggccg cggtgacct cttcgcgggc gtggcctacc tcttctcat gttccacact 360
109 ggtccccgca cagcccgaact ttcacttgag ggctggttcc tgcggcaggg cttgctggac 420
110 acaagcctca ctgcgtcggg gccacactg ctggccatcg ccgtggagct gcaccgcagt 480
111 gtgatgtccg tgcagctgca cagccgcctg ccccggtggc gcgtggctat gctcattgtg 540
112 ggcgtgtggg tggctgccct gggcctgggg ctgctgcctg cccactcctg gcactgcctc 600
113 tgtgccctgg accgtgctc acgcatggca cccctgctca gccgtccta tttggccgtc 660
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116 cgagagacca cgctcagcct ggtcaagact gttgtcatca tcctgggggc gttcgtggtc 840
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130 aagggtttgt gctccttgca gcctccaggg actggcctgt ccccaataga attgaagcag 1680
131 tccacgggga ggggatgata caaggagtaa acctttcttt aactcaaaa aaaa 1734

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RAW SEQUENCE LISTING
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DATE: 03/13/2001

TIME: 17:08:17

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136 <213> ORGANISM: Homo sapiens
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143 20 25 30
145 Arg Gln Val Ala Ser Ala Gly Ile Val Ile Leu Cys Cys Ala Ile Val
146 35 40 45
148 Val Glu Asn Leu Leu Val Leu Ile Ala Val Ala Arg Asn Ser Lys Phe
149 50 55 60
151 His Ser Ala Met Tyr Leu Phe Leu Gly Asn Leu Ala Ala Ser Asp Leu
152 65 70 75 80
154 Leu Ala Gly Val Ala Phe Val Ala Asn Thr Leu Leu Ser Gly Ser Val
155 85 90 95
157 Thr Leu Arg Leu Thr Pro Val Gln Trp Phe Ala Arg Glu Gly Ser Ala
158 100 105 110
160 Ser Ile Thr Leu Ser Ala Ser Val Gly Ser Leu Leu Ala Ile Ala Ile
161 115 120 125
163 Glu Arg His Val Ala Ile Ala Lys Val Lys Leu Tyr Gly Ser Cys Lys
164 130 135 140
166 Ser Cys Arg Met Leu Leu Leu Ile Gly Ala Ser Trp Leu Ile Ser Leu
167 145 150 155 160
169 Val Leu Gly Gly Leu Pro Ile Leu Gly Trp Asn Cys Leu Gly His Leu
170 165 170 175
172 Glu Ala Cys Ser Thr Val Leu Pro Leu Tyr Ala Lys His Tyr Val Leu
173 180 185 190
175 Cys Val Val Thr Ile Phe Ser Ile Ile Leu Leu Ala Ile Val Ala Leu
176 195 200 205
178 Tyr Val Arg Ile Tyr Cys Val Val Arg Ser Ser His Ala Asp Met Ala
179 210 215 220
181 Ala Pro Gln Thr Leu Ala Leu Leu Lys Thr Val Thr Ile Val Leu Gly
182 225 230 235 240
184 Val Phe Ile Val Cys Trp Leu Pro Ala Phe Ser Ile Leu Leu Leu Asp
185 245 250 255
187 Tyr Ala Cys Pro Val His Ser Cys Pro Ile Leu Tyr Lys Ala His Tyr
188 260 265 270
190 Phe Phe Ala Val Ser Thr Leu Asn Ser Leu Leu Asn Pro Val Ile Tyr
191 275 280 285
193 Thr Trp Arg Ser Arg Asp Leu Arg Arg Glu Val Leu Arg Pro Leu Gln
194 290 295 300
196 Cys Trp Arg Pro Gly Val Gly Val Gln Gly Arg Arg Arg Val Gly Thr
197 305 310 315 320
199 Pro Gly His His Leu Leu Pro Leu Arg Ser Ser Ser Ser Leu Glu Arg
200 325 330 335
202 Gly Met His Met Pro Thr Ser Pro Thr Phe Leu Glu Gly Asn Thr Val
203 340 345 350

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/274,752C

DATE: 03/13/2001

TIME: 17:08:17

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205 Val

209 <210> SEQ ID NO: 4

210 <211> LENGTH: 1122

211 <212> TYPE: DNA

212 <213> ORGANISM: Homo sapiens

214 <400> SEQUENCE: 4

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217 gtcacacctc gttgcgccat gcaggagacg acctcccgcc aggtggcctc ggccttcac 180
218 gtcacacctc gttgcgccat tgtggtgga aacctctctg tgctcattgc ggtggcccg 240
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223 ggagcgcaga agagctgcgc catgctctctg ctcatcgagg cctcgtggct catctcgtc 540
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231 cggccgctgc agtgcctggc gccgggggtg ggggtgcaag gacggaggcg ggtcgggacc 1020
232 ccgggccacc acctcctgcc actccgcagc tccagctccc tggagagggg catgcacatg 1080
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237 <212> TYPE: DNA

238 <213> ORGANISM: Homo sapiens

240 <400> SEQUENCE: 5

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242 agggccagat ggtcatcatg ggccagtgt actacaacga gaccatcgcc ttcttctata 120
243 acaacagtgg caaagagctc agctccact ggcggcccaa ggatgtggtc gtggtggcac 180
244 tggggctgac cgtcagcgtg ctggtgctgc tgaccaatct gctggtcata gcagccatcg 240
245 cctccaaccg ccgcttccac cagcccatct actacctgt cggcaatctg gcccgggctg 300
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249 <210> SEQ ID NO: 6

250 <211> LENGTH: 8

251 <212> TYPE: PRT

252 <213> ORGANISM: combination of rat and human.

254 <400> SEQUENCE: 6

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256 1 5

259 <210> SEQ ID NO: 7

260 <211> LENGTH: 22

261 <212> TYPE: DNA

262 <213> ORGANISM: combination of rat and human.

264 <220> FEATURE:

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/274,752C

DATE: 03/13/2001
 TIME: 17:08:17

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265 <221> NAME/KEY: misc_feature
 266 <222> LOCATION: (6)
 267 <223> OTHER INFORMATION: The n at position 6 can be g or c.
 269 <220> FEATURE:
 270 <221> NAME/KEY: misc_feature
 271 <222> LOCATION: (12)
 272 <223> OTHER INFORMATION: The n at position 12 can be c or t.
 274 <220> FEATURE:
 275 <221> NAME/KEY: misc_feature
 276 <222> LOCATION: (17)
 277 <223> OTHER INFORMATION: The n at position 17 can be c or t.
 279 <220> FEATURE:
 280 <221> NAME/KEY: misc_feature
 281 <222> LOCATION: (21)
 282 <223> OTHER INFORMATION: The n at position 21 can be a or c.
 284 <400> SEQUENCE: 7
 OK 285 ctcctngcca tngcatngag ng 22
 287 <210> SEQ ID NO: 8
 288 <211> LENGTH: 8
 289 <212> TYPE: PRT
 290 <213> ORGANISM: combination of rat and human.
 292 <400> SEQUENCE: 8
 293 Leu Leu Leu Leu Asp Ser Thr Cys
 294 1 5
 297 <210> SEQ ID NO: 9
 298 <211> LENGTH: 22
 299 <212> TYPE: DNA
 300 <213> ORGANISM: combination of rat and human.
 302 <220> FEATURE:
 303 <221> NAME/KEY: misc_feature
 304 <222> LOCATION: (4), (15), (21) 15 21
 305 <223> OTHER INFORMATION: The n at position 4, 16, and 22 can be c or g.
 307 <220> FEATURE:
 308 <221> NAME/KEY: misc_feature
 309 <222> LOCATION: (6), (16), (18)
 310 <223> OTHER INFORMATION: The n at position 6 and 8 can be a or c.
 312 <220> FEATURE:
 313 <221> NAME/KEY: misc_feature
 314 <222> LOCATION: (7), (9), (18) 18
 315 <223> OTHER INFORMATION: The n at position 7, 9, and 19 can be a or g.
 317 <400> SEQUENCE: 9
 W--> 318 caghtnnnt ccagnag na 22
 320 <210> SEQ ID NO: 10
 321 <211> LENGTH: 24
 322 <212> TYPE: DNA
 323 <213> ORGANISM: Homo sapiens
 325 <400> SEQUENCE: 10
 326 gcaggacagt ggagcaggcc tcga 24
 328 <210> SEQ ID NO: 11

VERIFICATION SUMMARY

DATE: 03/13/2001

PATENT APPLICATION: US/09/274,752C

TIME: 17:08:18

Input Set : A:\A-67501.app

Output Set: N:\CRF3\03132001\I274752C.raw

L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9